

## **Product datasheet for SC116395**

## MT3 (NM\_005954) Human Untagged Clone

## **Product data:**

**Product Type:** Expression Plasmids

**Product Name:** MT3 (NM\_005954) Human Untagged Clone

Tag: Tag Free

Symbol: MT3

**Synonyms:** GIF; GIFB; GRIF; ZnMT3

Mammalian Cell None

Selection:

Vector: pCMV6-XL5

E. coli Selection: Ampicillin (100 ug/mL)

Fully Sequenced ORF: >OriGene ORF within SC116395 sequence for NM\_005954 edited (data generated by NextGen

Sequencing)

GCAGAGAAGTGCAGCTGCTGCCAGTGA

Clone variation with respect to NM\_005954.2

5' Read Nucleotide

Sequence:

>OriGene 5' read for NM\_005954 unedited
CACGAGGCAGTTGCTTGGAGAAGCCCGTTCACCGCCTCCAGCTGCTGCTCTCCTCGACAT

TCATTTTGTCTGACTAG



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3' Read Nucleotide Sequence:

>OriGene 3' read for NM\_005954 unedited TTTTTTTTTTTTTTTCCCGGTCAAGGGAATTATTGGCATTCCCCCCAGGGCAACAGG GGAAGGGGACACCACCACACTTTACCACAGGCATAAGGGGGACTGAACCACCTGGCACT ATTTCCACGTGCTCCAAACGGAGGGGGCCTTTTTACTGGCAAAAACTGCACTTTTTTGG TTTTGCCTCAACTGCCTTTCCCCCTTTGCACACACACACCCTTGGGACACTTTTTACACTT GCAAGAATCCCCCCAAGGGCCGGAACCACCAAAAAGGCAGGGCAGGGCTCAAGGGCCAT GTCCAAGAAAACAACTGGAGGCGGGGAAAGGGCTTTTCCAAACAACTGGCTTGTGCC CAAATTCCGGGCCCCCTATAAGGAGTCGTATTACAAAAATTTGACGGGTCACTAAAACAA CTCTGCTATATAAACCTTCCACCGGACACCCCTACCGGCCATTTGGGTAACGGGGGCCGG GGGTATTACCACATTTTGGAAAATCCCCTTGATTTTGGTGCCAAAAAAACTTCTATTGAC GTAATGGGGGGGGAAACTTGGAAATCCCCGTGAGTAAACCGCTTTCACCCCATTGGTGT ACTGCCAAACCCCATACCATGGAATAACGATACTAAACCCTANATTACTGGCAGTTAGAA AACCCCCTAGGGCATTACTGGCATATGCCCAGCGGCCCTTTACGTATTGACATAAAGGGG GGGGCTTGCTATAACCACTGAGACCGCAAGGGGCGTTACCCGAAACTCCCCTTGCCCAAG GGAAGCCATTGGCTACTATGAAAAC

Restriction Sites: Notl-Notl

**ACCN:** NM 005954

Insert Size: 470 bp

**OTI Disclaimer:** Our molecular clone sequence data has been matched to the reference identifier above as a

point of reference. Note that the complete sequence of our molecular clones may differ from the sequence published for this corresponding reference, e.g., by representing an alternative

RNA splicing form or single nucleotide polymorphism (SNP).

**Components:** The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube

containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

**Reconstitution Method:** 1. Centrifuge at 5,000xg for 5min.

2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.

3. Close the tube and incubate for 10 minutes at room temperature.

4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid

at the bottom.

metalthio

5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of

shipping when stored at -20°C.

RefSeq: <u>NM 005954.2, NP 005945.1</u>

RefSeq Size:599 bpRefSeq ORF:207 bpLocus ID:4504UniProt ID:P25713Cytogenetics:16q13

Domains:





## **Gene Summary:**

This gene is a member of the metallothionein family of genes. Proteins encoded by this gene family are low in molecular weight, are cysteine-rich, lack aromatic residues, and bind divalent heavy metal ions. This gene family member displays tissue-specific expression, and contains a threonine insert near its N-terminus and a glutamate-rich hexapeptide insert near its C-terminus relative to the proteins encoded by other gene family members. It plays an important role in zinc and copper homeostasis, and is induced under hypoxic conditions. The encoded protein is a growth inhibitory factor, and reduced levels of the protein are observed in the brains of individuals with some metal-linked neurodegenerative disorders such as Alzheimer's disease. [provided by RefSeq, Sep 2017]